

ABSTRACT

The present invention relates to a mobile packet communication apparatus for supplying a terminating service to a mobile terminal and a packet communication control method employed for the communication network.

In the case of the conventional techniques, an original side home gateway node cannot identify a path to a destination gateway node from the original IP packet header. It is thus impossible to supply any terminating service to a dynamic IP address mobile terminal.

Under such circumstances, the present invention uses a dynamic DNS and a mobile terminal is provided with a dynamic DNS client function. When an IP address is allocated to a mobile terminal, therefore, the mobile terminal sends a DNS update message to the target subscriber node. The message includes a dynamically allocated IP address. Receiving the DNS update message, the subscriber node adds the home gateway node identifier (network identifier) of the mobile terminal to the message parameters to be sent to the dynamic DNS.

RECEIVED 03/26/2000